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**DOCUMENT-
IDENTIFIER:** JP 10168652 A
TITLE: TOBACCO DEODORANT AND CRIMPED POLYOLEFIN FIBER, ITS
PRODUCTION AND TOBACCO DEODORANT CARPET USING THE
SAME CRIMPED FIBER
PUBN-DATE: June 23, 1998

INVENTOR-INFORMATION:

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ABSTRACT:

PROBLEM TO BE SOLVED: To produce a tobacco deodorant carpet excellent in resistance to washing by forming a crimped polyolefin-based fiber comprising a deodorant composed of a hydrazine derivative and an inorganic substance having adsorptivity.

SOLUTION: A deodorant composed of fine powder, obtained by mixing a hydrazine derivative such as a long-chain aliphatic mono- or dicarboxylic acid hydrazide or an aromatic mono- or dicarboxylic acid hydrazide having $\leq 5\text{g/l}$ solubility in water at 25°C , preferably dodecanedioic acid dihydrazide with an inorganic substance having the adsorptivity, preferably a complex of silicon oxide with zinc oxide and alumina and having $\leq 20\mu\text{m}$ average particle diameter is prepared. A polypropylene having 10-50g/10min melt flow rate is then compounded with 1-10wt.% resultant deodorant and the obtained composition is melt spun, drawn at 2-7 times draw ratio and heat-treated at $\leq 20\%$ relaxation ratio with hot air at $110\text{-}150^\circ\text{C}$ to afford a crimped tobacco deodorant polypropylene fiber having $\geq 6\text{cm}^3/\text{g}$ bulkiness and $>60\%$ deodorization ratio for ammonia and acetaldehyde.

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